Work Order ID 102391 Page 1 May-28-13 8:49:30 AM \*N900040100\* Setup Start Item ID: D4095-045 Accept **Revision ID:** Stop Wearplate Assembly Item Name: \*4\* Start Qty: 4.00 6/14/13 **Start Date: Cust Item ID: Reg'd Oty:** 4.00 Required Date: 6/14/13 **Customer:** Reference: Run Date: 13-05-79 Tooling: Process Plan: MUJ Date: Approvals: Stop Date: SPC (Y/N): Date: QC: Reject Set Up/ Tool ID Tool # Plan Reject Insp. Sequence ID/ Operation Accept Number Stamp **Work Center ID** Description Code Qty Qty **Run Hours Draw Nbr Revision Nbr** D4095 В 100 0.00 @ Jn R 13-6-10 FLOW WATER JET \*100\* 0.00 Waterjet Memo FLOW CNC Waterjet 1-Cut as per Dwg (D4095-5) Dwg Rev: \$ 304,063 Prog Rev: B 2-Deburr if necessary 110 QC2- Inspect parts off machine FAI/FAIB 0.00 D Jm Q 13-6-10 \*110\* 0.00 QC Memo Quality Control QC8- Inspect parts - second check 120

\*120\* QC

Memo

Quality Control

											DQA:	Date:	
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WOIK OIG	- ' -					Rework	]		Skid-tube	Crosstube	7	Water Jet	Engineering
Part I	No.					Scrap	]		Machining	Small Fab	Pro	od. Eng. Coor.	Quality
						Use-as-is		Thern	noforming	Finishing	Rec/Sto	re/Packaging	Other
, NCR I	۷o.					Work Order Update	]		Large Fab	Composite		Supplier	
Root					Descr	iption of work order update	П	nitial	Ac	tion	Sign &		
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	<u> </u>	Bending				Bend	1	Grain		<u> </u>	Ovalized	_	Pressure/Forced
	Centre Not Concentric to O/S BOM/Route				<b>–</b>	Hardware Over/Undo					<del></del>	Temperature/Cure	
	L_	Cracks			· <u> </u>	Broken/Damaged		4	ion Incomplete	.	Part Incorre	<del></del>	Weld
	1	Crushed/	Crimped			Burrs	1	Instruct	tions Incomplete/	/Unclear	Part Lost/M	issing	Wrong Stock Pulled

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Contamination

Countersink

Cut Too Short

Drill Holes Drawing

Finish

Folio

Part Moved

Positioned Wrong

Power Loss/Surge

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Cuffs

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

<b>Work Ord</b> <i>May-28-13 8:49</i>		2391		. ,	*102		Page 2							
Item ID: Revision ID: Item Name:	D4095-045 Wearplate As	ssembly			Accept	*N	1900	<b>040</b>	100	<b>)*</b> s	etup Star	10	S1* S2*	
Start Date: Required Date:	6/14/13	Start Qty: 4.00 Req'd Qty: 4.00		*4* *4*			Cust Item I Customer:	D:						
Reference: Approvals:		an:		<u> </u>				ate:	T	B	tun Star Stor		R1* R2*	
Sequence ID/ Work Center II 130		Operation Description NC BRAKE			Set Up/ Run Hours		Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	bul
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140 *140* QC Quality Control		QC5- Inspect part com	pleteness to s	tep on W/O	0.00 3-6-	-18	·			1/				
150 *150*	·				0.00	и 1					ó		10	
Hand Finishing		DWG	,	CONCAVE) SU BATCH: 12	0.00 JRFACE WITH ROCK <b>5986</b>	GUARD A	S PER			!!	<b></b>	<b>V</b>	13-6-	18

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NCR No					Work Order Update			Thermoforming Finishing Composite			re/Packaging Supplier	Other
Root				Descri	ption of work order update		Initial	Action	n	Sign &		
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,	Cracks			:	Broken/Damaged	-	<del>1</del>	on Incomplete		Part Incorred	<b>├</b>	Weld
	Crushed/Crimped				Burrs		-1	ions Incomplete/Unc	<b>—</b>	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	L	Mainte	nance		Part Moved		
	Heat Treat				Countersink	$ldsymbol{f eta}$	Mislabe	led	<u> </u>	Positioned W	/rong	· •
	Inspectio	n Strin in	Tube		Cut Too Short	1	Misread	ı		Power Loss/9	Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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## \*102391\*

Page 3

May-28-13 8:49:30 AM

Wiuy-20-15 0.45	.JU AIVI												
Item ID: Revision ID:	D4095-045				Accept	*N	1900	<b>040</b>	100	<b>)*</b> s	Setup Star	1.71	S1*
Item Name:	Wearplate Ass	sembly									Stop	, *N	S2*
Start Date:	6/14/13	Start Qty: 4.00		*4*		(	Cust Item I	D:	•				
Required Date:	6/14/13	<b>Req'd Qty:</b> 4.00		*4*		. (	Customer:						· i
Reference:			•				. •				_		
Approvals:	Process Pla	ın:	Date:_		Tooling:		Da	ıte:		R	Run Star	17	R1*
	QC:		Date:_	· · · · · · · · · · · · · · · · · · ·	<b>SPC (Y/N):</b>	<u>.</u>	Da	ite:			Stop	` *N	R2*
Sequence ID/ Work Center II	D	Operation Description			Set Up/ Run Hours	·	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160		QC3- Inspect Part Finish			0.00						٠		OAS
*160*		Memo			0.00					11.	<del></del>		05 B.O.
Quality Control													4
										•			
170		Identify as per dwg & Stoo	ck Location	n: FP-00	o.00						. /	W 1	10/16
*170* Packaging		Memo			0.00					X((	4	941	510617
Packaging								•		. •			
											* ;		
180		QC21- Final Inspection -	Work Orde	r Release	0.00	<b>!</b> .					465	19-11	(0-70)
*180* QC Quality Control		Memo			0.00						4 C D	13-0	
Quanty Control													1. 2. C)

pl (3-04-2-0)

											DQA:	Date:	
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Part N	do.					Scrap	i I			Small Fab	Pro	d. Eng. Coor.	Quality
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	Cracks					Broken/Damaged		4	on Incomplete		Part Incorre	ct	Weld
	Crushed/Crimped					Burrs	L	Instruct	ions Incomplete/	'Unclear	Part Lost/M	issing	Wrong Stock Pulled
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	Ir	nspection	n Strip in	Tube		Cut Too Short Misread					Power Loss/	Surge	Other

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish Folio

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May-28-13 8:49:29 AM

Work Order ID:

102391

Parent Item:

D4095-045

Parent Item Name:

Wearplate Assembly

**Start Date:** 6/14/13

Required Date: 6/14/13

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP REV:A 11.10.12 NEW ISSUE DD VERF:EC

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Qty per Kit	Total	Qty	Date	Status
Item Name	Item ID	Purch	Item	Location	Location	Seq ID	Measure	- •	Qty per ran	Qty	Issued	Issued	Duitus
M304S16GA		Purchased	No			100	sf	446.0842	1.03 Am	4.336842	/_ 9		
304/316 Sheet .063									y	EL 13	-6-1		
304/310 Sheet .063				<b>Location</b>		Loc Oty	<u>Lo</u>	c Code	0				
				MAT020		446.0841688							
				122	245	0.1713688							
				123	136	140.8							
				124	428	23.61							·
	•			124	572	25.5028			· 		*		
				125	599	256				<u> </u>			

											DQA.	Date	·
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					-						QA Closed:	Date	
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Cause	Da	te St	tep	Qty		or Non-conformance	Cr	nief Eng	Description		Date	Verification	QC Inspector
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Operator													
Material													
Setup						·							
Other			- 1										
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Supplier		į		-	:								
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	Bend	ing				Bend	Г	Grain			Ovalized		Pressure/Forced
	Centre Not Concentric to O/S				o/s	BOM/Route	Г	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks					Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct 🗌	Weld
	Crushed/Crimped				Burrs		Instruct	ions Incomplete/Unclear		Part Lost/Mi	ssing	Wrong Stock Pulled	
	Cuffs					Contamination		Mainte	nance		Part Moved		-
' 	Heat Treat					Countersink		Mislabe	led		Positioned V	Vrong	
	Inspection Strip in Tube					Cut Too Short		Misread			Power Loss/	Surge	Other
		Inspection Strip in Tube											

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

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Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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DART AEROSPACE LTD	Work Order:	102391
Description: Wearplate	Part Number:	D4095-5
Inspection Dwg: D4095 Rev: B		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.188	+0.005/-0.001	0.188			U-516W-01	
0.300	+/-0.010	0.304	v		//	
0.300	+/-0.010	0.301	<u> </u>		,,	
2.432	+/-0.010	2.442	u		11	
3.227	+/-0.010	3.226	レ		11	
2.50	+/-0.030	3.226	レ		11	
6.75	+/-0.030	6.746	V		11	
10.00	+/-0.030	6.746	,		T-JKMOS	
20.00	+/-0.030	20			7 JKM06	
30.00	+/-0.030	30			T- Thima6	
38.500	+/-0.010	38.5	~		T- JKMO6	
5.500	+/-0.010	5.498	س		U- JAMOI	
43.50	+/-0.030	43.5			T- JKM-06	
0.063	+/-0.010	0-057			V- TKINOI	
				·		

Measured by:	A Am	Audited by:	16	Preliminary Approval:	
Date:	13-6-9	Date:	3-83 Blablio	Date:	

Rev	Date	Change		Revi	sed by	Approved	
Α	11.11.08	New Issue	P/O D4095-045	KJ		14	ĺ
					-71		





